



Chemical and Material Risk Management Directorate

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Department of Defense Environmental, Energy, and Transportation Management Implementation

6 May 2009

Environmental, Energy, and Sustainability Symposium

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(Installation & Environment)*

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Overview

- ❖ **Executive Order 13423 Overview**
- ❖ **DoD EO Structure**
- ❖ **DoD EO Policy Guidance**
 - ◆ Green Procurement
 - ◆ Electronics Stewardship Plan
 - ◆ Toxic and Hazardous Chemicals Reduction Plan
 - ◆ Environmental Management Systems
- ❖ **Environment, Energy, Transportation Progress**
- ❖ **Sustainable Practices and What's coming**
- ❖ **Priorities and Initiatives**

Executive Order 13423

“Strengthening Federal Environmental, Energy, and Transportation Management”

- ❖ Executive Order 13423 requires federal agencies to:
 - ◆ Conduct their environmental, transportation, and energy-related activities under the law in support of their respective missions in an **environmentally, economically and fiscally sound, integrated, continuously improving, efficient, and sustainable manner**.
- ❖ Major focus on 9 areas:
 - ◆ (i) **Energy efficiency**, (ii) **Renewable energy**, (iii) Water conservation, (iv) **Sustainable acquisition**, (v) Pollution and waste prevention and recycling, (vi) Toxic or hazardous waste reduction, (vii) Sustainable building design, (viii) Vehicle fleet management, and (ix) Electronics stewardship.



EO 13423 Key Requirements

Environmental Management Systems

Green Procurement/Acquisition

- ◆ Environmentally preferable products (e.g., Biobased, recycled materials, less energy, water, and toxic chemicals)

Solid Waste Management and Pollution Prevention (P2)

- ◆ Toxic/hazardous chemical reduction
- ◆ Recycling goals and metrics

Electronic Equipment Procurement, Use, and Disposal

- ◆ 95% must be EPEAT-registered
- ◆ Energy Star functions enabled

Water Consumption

- ◆ 16% reduction by FY 2015

Sustainable Building Design

- ◆ 15% meet “green facilities” criteria

Energy Intensity/Efficiency

- ◆ 30% total reduction by FY 2015

Renewable Energy

- ◆ At least 50% from solar, wind, geothermal, biofuels sources

Fleet Vehicles

- ◆ 2% petroleum reduction through FY 2015, increase non-petroleum based fuel by 10 % by FY 2015

Plug-In Hybrid (PIH) Vehicle Usage

- ◆ When reasonably available

DoD Integration Structure

The Executive Committee and Implementation Workgroup comprise of representatives from the Office of the Secretary of Defense (OSD) and the Components.

DUSD(I&E) - Chair	OASD(NII)/Deputy DOD-CIO
ADUSD(ESOH)	DASN(I&F)
ADUSD(I)	DASA (ESOH)
DASAF(EESOH)	AF/A4/7
DP&AP	OSD(C)
SSE/DT&E	DLA(DES-D)
DASN(E)	ADUSD LPS
OGC(E&I)	ODUSD(I&E)/CMRM – Executive Secretary
DDR&E	ODUSD(I&E)/Energy – Executive Secretary
ODUSD(A&T)	

**Please note there is no precedence in the order of the list above*

DoD EO Policy Guidance

- ❖ **On 21 December 2007, DoD distributed a memorandum for implementing EO 13423 to Department Components.**
 - ◆ *“The Deputy Under Secretary of Defense for Installations and Environment is designated as the Department’s Senior Agency Official for implementing EO 13423. However, it is the entire Department’s responsibility for meeting the goals and requirements of the EO, including preparing the reports required by the EO and its implementing instructions.”*
- ❖ **DoD EO Five-Year Plan**
 - ◆ DoD will be developing a five-year plan to meet Executive Order goals and requirements.
 - ◆ DoD will be developing an internal scorecard to measure progress against the EO and their five-year plan.

Initiatives: Green Procurement

DoD's goal is to procure 100 percent “green” environmentally friendly products.

- ❖ Formally established Green Procurement Program (GPP) in 2004 and developed an agency-wide strategy for effective implementation.
- ❖ GPP Training through Defense Acquisition University (DAU).
- ❖ Updated DoD GPP Strategy November 2008.
- ❖ NDAA 2008 Section 888: DoD plan to increase the usage of environmentally friendly products at DoD US and Overseas facilities.



Initiatives: Electronics Stewardship Plan

- ❖ EO 13423 elevated electronics stewardship to the level of Presidential Executive Order.
- ❖ Instructions to implement EO 13423 were issued March 2007.
 - ◆ Guidance requires each Federal Agency to develop a plan to implement electronics stewardship practices for all eligible owned or leased electronic equipment.
- ❖ The Electronics Stewardship Plan signed by DPAP, DCIO, and DUSD(I&E).
 - ◆ Submitted to the Office of Federal Environmental Executive.
 - ◆ DoD is currently in the beginning stages of implementing the plan.



Initiatives: Toxic and Hazardous Chemical Reduction Plan

Component	Targeted Chemical	Reduction Goal
Army	Trichloroethylene (TCE)	TBD
	Methylene Chloride (dichloromethane)	TBD
	Hexavalent Chromium	TBD
Navy	TRI Chemicals	2% annually or 20% by 2015 (2005 baseline)
	GHG Emissions	3% annually or 20% by 2015 (2003 baseline)
	CFC 114	100% by 2042 (1998 baseline)
USMC	Class I ODSs (non-mission-critical)	100% by 2015
	Class II ODSs	50% by 2020 (2009 baseline)
	TRI Chemicals (non-range facilities)	30% by 2015, relative to 2006 baseline
	GHG Emissions	3% annually (through 2015) or 30% by 2015 (2003 baseline)
Air Force	Lead (electronics)	99% by December 31, 2009 (2005 baseline)
	Lead (fleet vehicle tire weights)	100% by 2012 (2007 baseline)
	Hexavalent Chromium (aircraft painting)	100% by January 1, 2015 (2008 baseline)
	Multiple chemicals in aerospace hydraulic fluids	65% reduction by December 31, 2015 (2007 baseline)
	GHG Emissions	3% annually, or 30% by 2015 (2003 baseline)

Initiatives: Environmental Management System

- ❖ EMS DoD Instruction 4715.17 has been published and posted on the DoD Issuances website.
- ❖ DoD is working toward meeting the December 2009 deadline of full implementation and achieving a 'green' status for the FY2009 metrics and OMB Scorecard.
- ❖ DoD is currently updating their Compliance Management Plan.



Environment Progress

❖ Environmental Management Systems

- ◆ DoD has published and posted DoDI 4715.17
- ◆ Components report they are on track to achieve „green“
- ◆ Updating the DoD Compliance Management Plan

❖ Green Procurement

- ◆ DoD needs to draft a Biobased Strategy to maintain green status

❖ Electronic Stewardship

- ◆ Finalize DoD Power Management Policy
- ◆ Develop plan on how DoD will achieve 95% EPEAT purchasing requirement
- ◆ Engage DRMS in end-of-life reporting effort

❖ Sustainable Buildings

- ◆ Finalize DoD Sustainable Buildings Policy
- ◆ Develop a plan and milestones to implement green building principles

Energy and Transportation Progress

- ❖ **Overall energy results are good. Progress is being made, but:**
 - ◆ Reduction in energy intensity is leveling off
 - ◆ Renewable energy needs a strategy and focus
 - ◆ Designing 30% better than ASHRAE should be met with 2011 program
- ❖ **Some transportation results show improvement, but:**
 - ◆ Need more focus on the use of alt fuel in capable, non-waived vehicles
 - Much higher than last year, but still needs work
 - ◆ Reduction in petroleum use
 - Results are sporadic
 - Switch to NEV should help
 - Reducing miles traveled could help immensely
 - Increasing mission levels hurt, but no baseline adjustments were requested.
 - ◆ Increase alt fuel use
 - Hard to meet with limited infrastructure
 - Focused use in non-waived vehicles will help here too
- ❖ **Good work is ongoing, don't stop, keep moving forward!**

Sustainability



Sustainable Practices

What's coming?

- ◆ Greenhouse gas emission reductions
- ◆ Additional building energy efficiency requirements
- ◆ Increased use of renewable energy and siting of renewable energy sources at Federal facilities
- ◆ Better management of data centers
- ◆ Greening meetings, conferences, and travel services
- ◆ Increased use of plug-in hybrid vehicles



EO 13423 Priorities and Initiatives

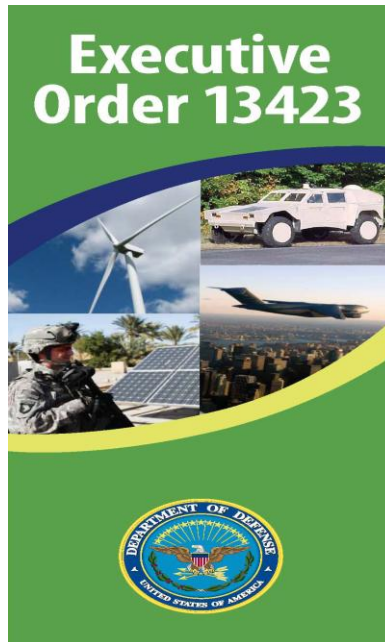
- ❖ **Continue to implement both the Toxic and Hazardous Chemicals Reduction and Electronics Stewardship Plan.**
- ❖ **Develop an internal DoD EO Scorecard to measure EO Implementation Progress.**
- ❖ **Continue to improve processes and procedures to implement the near-term requirements of E.O. 13423, as well as a long-term integrated sustainability strategy.**
- ❖ **Finalize DoD Sustainability Policy.**
- ❖ **Work with OMB and OFEE on the updated/new Executive Order.**

For More Information



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Environmental OMB Scorecard

Environmental	Status	Progress	Key Activities toward Green	Comments
Environmental Management Systems			<ul style="list-style-type: none"> ❖ Publish EMS DoDI 4715.vv. ❖ Achieve fully conformance and 80% of appropriate facilities must achieve a green status on the Federal EMS Metrics. ❖ Update Compliance Management Plan. 	<ul style="list-style-type: none"> ❖ DoDI 4715.vv has just moved out of ARA forward AT&L ❖ Components say they are on track to get to Green ❖ Updated CMP is a bonus
Green Procurement			<ul style="list-style-type: none"> ❖ Develop DoD Biobased Strategy. ❖ Improve Communication to the deck plate 	<ul style="list-style-type: none"> ❖ Biobased strategy needed to stay green in status.
Electronic Stewardship			<ul style="list-style-type: none"> ❖ Finalize DoD Power Management Policy. ❖ Develop plan of how DoD will achieve 95% EPEAT purchasing requirement. ❖ Engage DRMS in end-of-life reporting effort. 	<ul style="list-style-type: none"> ❖ CIO, DPAP, DLA are primary owners of these requirements ❖ EPEAT tracking may pose problems
Sustainable Buildings			<ul style="list-style-type: none"> ❖ Finalize DoD Sustainable Buildings Policy. ❖ Develop a plan and milestones to implement green building principles. 	<ul style="list-style-type: none"> ❖ FED articulated to OFEE they are working on the plan and more appropriate metrics. More than energy